

Aladdin warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Aladdin-e.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

## Specification Sheet

Product Name: **Tris(hydroxymethyl)aminomethane**  
 Specifications & Purity: EP, USP, for cell culture test, ≥ 99.9% (T)  
 SKU #: **T110598**

Parameter	Limit Values
Loss on drying(EP)	0-0.5 (%)
Melting point	168-172 (°C)
Ignition Residue(Ash)	0-0.1 (%)
Water by Karl Fischer	0-0.2 (%)
Iron(Fe)(ICP)	0-1 (ppm)
Purity (Titration by H2SO4)	99.7-100.3 (%)
Heavy metal (as Pb)	0-2 (ppm)
PH(5% in water)	10-11.5
UV Absorbance 280nm(40%,H2O)	0-0.4
UV Absorbance 290nm(40%,H2O)	0-0.4
UV Absorbance 260nm(40%,H2O)	0-0.4
Appearance (T110598)	White to Off-White Solid, Powder, or Crystals
Identity Test B (USP)	Pass
Identity Test C (USP)	Pass
Infrared spectrum	Conforms to Structure
Related substances	Pass
Solubility in H2O , clear colorless , 200g plus 300ml of water	pass
Loss on Drying(USP)	≤1 (%)
Solubility in 2.5 g plus 50 ml of CO2-Free H2O (EP),colorless ,clear	Pass
Identity Test A (USP)	Pass
Chloride (Cl-)	≤100 (ppm)
DNAse, Exonuclease Detection	None Detected
NICKase,Endonuclease Detection	none Detected
RNAse Detection	None Detected
Protease Detection	None Detected
Endotoxin Level	<1 (EU/mg)
Total Count Aerobic, Yeast, plus Mold	≤100 (cfu/g)
Cell Culture Test	pass

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